

GRAHAM et al
Appl. No. 10/517,256
January 19, 2009

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 (currently amended). A method of inhibiting or reducing the proliferation of prostate cancer cells that express sPLA₂-IIA, the method comprising administering to the cells a selective inhibitor of sPLA₂ sPLA₂-IIA.

2 (currently amended). A method for the treatment of prostate cancer, the method comprising administering to a subject diagnosed with prostate cancer and requiring treatment for said cancer a selective inhibitor of sPLA₂-IIA inhibitor, wherein the prostate cancer is due to the presence of prostate cancer cells that express sPLA₂-IIA.

3 (previously presented). A method according to claim 1 wherein the prostate cancer cells are androgen independent prostate cancer (AIPC) cells.

4 (withdrawn). A method according to claim 1, wherein the PLA₂ inhibitor is a cPLA₂-α inhibitor.

5 (canceled).

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6 (previously presented). A method according to claim 1, wherein the sPLA₂-IIA inhibitor is a conformationally constrained molecule derived from a peptide consisting essentially of amino acid residues 70-74 of a human sPLA₂-IIA protein, or the equivalent residues in other sPLA₂ proteins.

7 (previously presented). A method according to claim 6 wherein the conformationally constrained molecule is a cyclic molecule.

8 (previously presented). A method according to claim 6 wherein the conformationally constrained molecule is a cyclic peptide or derivative thereof.

9 (previously presented). A method according to claim 8, wherein the conformationally constrained peptide is a cyclic peptide of the following formula:

A1-A2-A3-A4-A5

in which

A1 is F or Y or W or 2Nap

A2 is L or I

A3 is S or T

A4 is F or Y or W or 2Nap

A5 is R or K.

10 (previously presented). A method according to claim 9, wherein the peptide is selected from the group consisting of cFLSYK (SEQ ID NO:5), cFLSYR (SEQ ID NO:6) and c(2NapA)LS(2NapA)R.

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11 (withdrawn). A method according to claim 1, wherein a cPLA₂- α inhibitor is administered in conjunction with an sPLA₂-IIA inhibitor.

12. (withdrawn). A method for detecting prostate cancer or a metastases thereof in a subject, said method comprising:

determining the level of PLA₂ mRNA expressed in a test sample from said subject; and

comparing the level of PLA₂ mRNA determined at (i) to the level of PLA₂ mRNA expressed in a comparable sample from a healthy or normal individual,

wherein a level of PLA₂ mRNA at (i) that is enhanced in the test sample relative to the comparable sample from the normal or healthy individual is indicative of the presence of a cancer cell in said subject.

13 (withdrawn). A method for detecting prostate cancer or a metastases thereof in a subject, said method comprising:

determining the level of a PLA₂ polypeptide in a test sample from said subject;

and

comparing the level of PLA₂ polypeptide determined at (i) to the level of said PLA₂ polypeptide in a comparable sample from a healthy or normal individual,

wherein a level of said PLA₂ polypeptide at (i) that is enhanced in the test sample relative to the comparable sample from the normal or healthy individual is indicative of the presence of a cancer cell in said subject.

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14 (withdrawn). A method of assessing the predisposition of a subject to prostate cancer, the method comprising the step of determining the presence of a polymorphism or an epigenetic change in a PLA₂ gene of the subject.

15 (withdrawn). A method according to claim 12 wherein the prostate cancer cells are androgen independent prostate cancer (AIPC) cells.

16 (withdrawn). A method according to claim 12, wherein the PLA₂ is cPLA₂- α .

17 (withdrawn). A method according to claim 12, wherein the PLA₂ is sPLA₂-IIA.